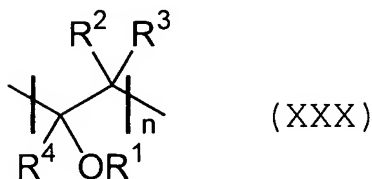


a). Amendments to the Claims

1. (Currently Amended) A polyurethane ~~having, in the molecule,~~ having a structural unit represented by formula (XXX):



~~(wherein,~~

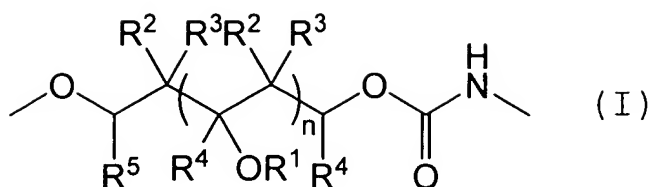
wherein n represents an integer of 2 to 1000,

R¹ represents substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted aralkyl, ~~and~~

R², R³ and R⁴, ~~which are the same or different,~~ each independently represent a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted aralkyl, and

R¹s, R²s, R³s, and R⁴s, when they are each present two or more in number, may be ~~respectively the same or different).~~ different.

2. (Currently Amended) A polyurethane ~~having, in the molecule,~~ having a structural unit represented by formula (I):



~~(wherein n, R¹, R², R³ and R⁴ respectively have the same meanings as defined above,~~

wherein n represents an integer of 2 to 1000,

R¹ represents substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted aralkyl,

R², R³ and R⁴ independently represent a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted aralkyl,

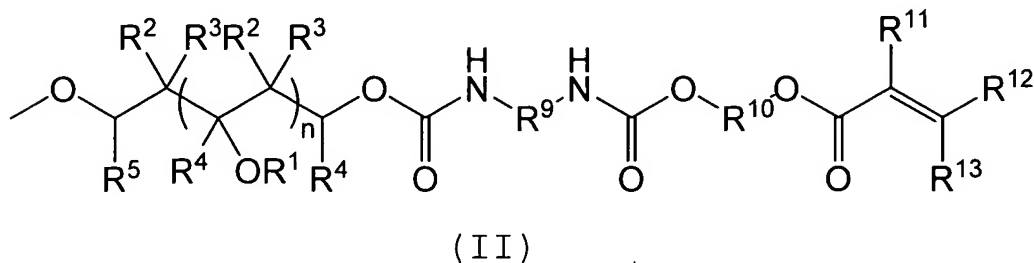
R¹s, R²s, R³s, and R⁴s, when they are each present two or more in number, may be the same or different, and

R⁵ represents a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted aralkyl). aralkyl.

3. (Original) The polyurethane according to claim 1 or 2, wherein the weight-average molecular weight thereof is 30000 to 1000000.

4. (Currently Amended) ~~An urethane acrylate having, in the molecule,~~
~~the structural unit represented by formula (XXX) described in~~ The polyurethane according
to claim 1, which is a urethane acrylate.

5. (Currently Amended) An urethane acrylate ~~having, in the molecule,~~
having a structural unit represented by formula (II):



~~(wherein n, R¹, R², R³, R⁴ and R⁵ respectively have the same meanings as defined above,~~

wherein n represents an integer of 2 to 1000,

R¹ represents substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted aralkyl,

R², R³ and R⁴ independently represent a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted aralkyl,

R¹s, R²s, R³s, and R⁴s, when they are each present two or more in number, may be the same or different,

R⁹ represents a residue derived from a polyisocyanate compound,

R¹⁰ represents substituted or unsubstituted lower alkylene,
substituted or unsubstituted cycloalkylene, or substituted or unsubstituted arylene, and

~~R¹¹, R¹² and R¹³, which are the same or different, each~~
independently represent a hydrogen atom, substituted or unsubstituted lower alkyl,
substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or a substituted or

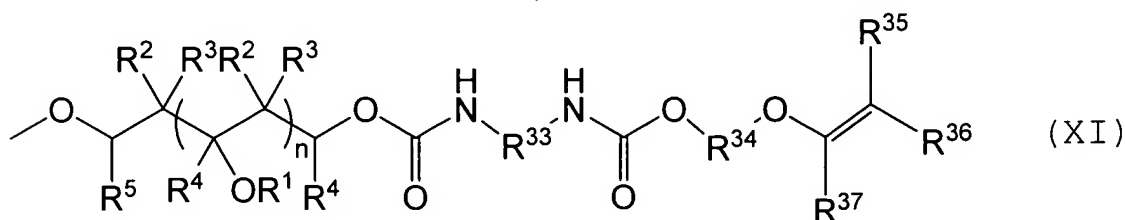
unsubstituted ~~aralkyl~~: aralkyl.

6. (Original) The urethane acrylate according to claim 4 or 5, wherein the number-average molecular weight thereof is 200 to 10000.

7. (Currently Amended) A composition comprising the urethane acrylate according to ~~any of claims 4 to 6~~ claim 4 or 5, and a radical photo-, or thermal polymerization initiator.

8. (Currently Amended) ~~An urethane alkenyl ether having, in the molecule, the structural unit represented by formula (XXX) described in~~ The polyurethane according to claim 1, which is a urethane alkenyl ether.

9. (Currently Amended) An urethane alkenyl ether ~~having, in the molecule,~~ having a structural unit represented by formula (XI):



~~(wherein n, R¹, R², R³, R⁴, and R⁵ respectively have the same meanings as defined above;~~

wherein n represents an integer of 2 to 1000,

R¹ represents substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted

aralkyl.

R², R³ and R⁴ independently represent a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted aralkyl.

R¹s, R²s, R³s, and R⁴s, when they are each present two or more in number, may be the same or different.

R³³ represents a residue derived from a polyisocyanate compound,

R³⁴ ~~represent~~ represents a substituted or unsubstituted lower alkylene, substituted or unsubstituted cycloalkylene, or substituted or unsubstituted arylene, and

R³⁵, R³⁶ and R³⁷, ~~which are the same or different,~~ each independently represent a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl or substituted or unsubstituted ~~aralkyl).~~ aralkyl.

10. (Original) The urethane alkenyl ether according to claim 8 or 9, wherein the number-average molecular weight thereof is 200 to 10000.

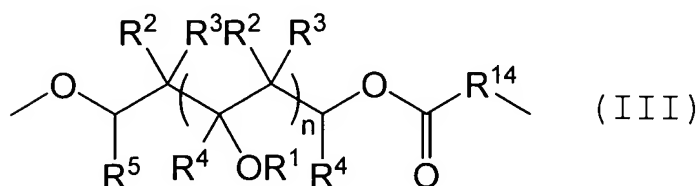
11. (Currently Amended) A composition comprising the urethane alkenyl ether according to ~~any of claims 8 to 10~~ claim 8 or 9, and a polymerization initiator generating an acid through heating or light irradiation.

12. (Currently Amended) A composition comprising the urethane

alkenyl ether according to ~~any of claims 8 to 10~~ claim 8 or 9, and a compound having a maleimido group.

13. (Currently Amended) ~~A polyester derived from a polyol, said polyol having, in the molecule, the structural unit represented by formula (XXX) described in The polyurethane according to claim 1~~ which is a polyester and having hydroxyl groups at its 2, 3, or 4 ends.

14. (Currently Amended) A polyester ~~having, in the molecule,~~ having a structural unit represented by formula (III):



~~(wherein n, R¹, R², R³, R⁴ and R⁵ respectively have the same meanings as defined above,~~

wherein n represents an integer of 2 to 1000,

R¹ represents substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted aralkyl,

R², R³ and R⁴ independently represent a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted aralkyl,

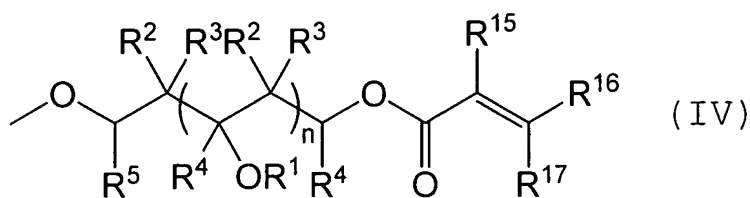
R¹s, R²s, R³s, and R⁴s, when they are each present two or more in number, may be the same or different, and

R^{14} represents substituted or unsubstituted lower alkylene,
substituted or unsubstituted cycloalkylene, or substituted or unsubstituted ~~arylene~~; arylene.

15. (Original) The polyester according to claim 13 or 14, wherein the weight-average molecular weight thereof is 30000 to 1000000.

16. (Currently Amended) ~~An ester acrylate derived from a polyol, said polyol having, in the molecule the structural unit represented by formula (XXX) described in~~ The polyurethane according to claim 1 which is an ester acrylate and having hydroxyl groups at its 2, 3, or 4 ends.

17. (Currently Amended) An ester acrylate ~~having, in the molecule,~~ having a structural unit represented by formula (IV):



~~(wherein, n, R^1 , R^2 , R^3 , R^4 and R^5 respectively have the same meanings as defined above,~~

wherein n represents an integer of 2 to 1000,

R^1 represents substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted aralkyl,

R^2 , R^3 and R^4 independently represent a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or

unsubstituted aryl, or substituted or unsubstituted aralkyl,

R¹s, R²s, R³s, and R⁴s, when they are each present two or more in number, may be the same or different, and

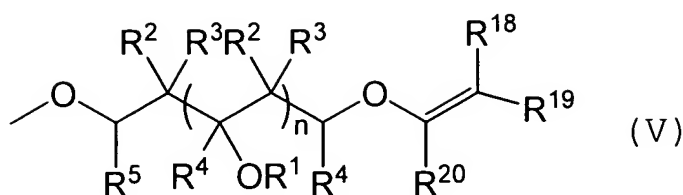
R¹⁵, R¹⁶, and R¹⁷, which are the same or different, each independently represent a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted aralkyl). aralkyl.

18. (Original) The ester acrylate according to claim 16 or 17, wherein the number-average molecular weight thereof is 200 to 10000.

19. (Currently Amended) A composition comprising the ester acrylate according to ~~any of claims 16 to 18~~ claim 16 or 17, and a radical photo-, or thermal polymerization initiator.

20. (Currently Amended) ~~An alkenyl ether having, in the molecule, the structural unit represented by formula (XXX) described in~~ The polyurethane according to claim 1 which is an alkenyl ether.

21. (Currently Amended) An alkenyl ether ~~having, in the molecule,~~ having a structural unit represented by formula (V):



(wherein, n , R^1 , R^2 , R^3 , R^4 and R^5 respectively have the same meanings as defined above,

wherein n represents an integer of 2 to 1000,

R^1 represents substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted aralkyl,

R^2 , R^3 and R^4 independently represent a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted aralkyl,

R^1 s, R^2 s, R^3 s, and R^4 s, when they are each present two or more in number, may be the same or different, and

R^{18} , R^{19} , and R^{20} , which are the same or different, each independently represent a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted aralkyl). aralkyl.

22. (Original) The alkenyl ether according to claim 20 or 21, wherein the number-average molecular weight thereof is 200 to 10000.

23. (Currently Amended) A composition comprising the alkenyl ether according to ~~any of claims 20 to 22~~ claim 20 or 21 and a polymerization initiator

generating an acid through heating or light irradiation.

24. (Currently Amended) A composition comprising the alkenyl ether according to ~~any of claims 20 to 22~~ claim 20 or 21 and a compound having a maleimido group.

25. (New) A composition comprising the urethane acrylate according to claim 6, and a radical photo-, or thermal polymerization initiator.

26. (New) A composition comprising the urethane alkenyl ether according to claim 10, and a polymerization initiator generating an acid through heating or light irradiation.

27. (New) A composition comprising the urethane alkenyl ether according to claim 10, and a compound having a maleimido group.

28. (New) A composition comprising the ester acrylate according to claim 18, and a radical photo-, or thermal polymerization initiator.

29. (New) A composition comprising the alkenyl ether according to claim 22 and a polymerization initiator generating an acid through heating or light irradiation.

30. (New) A composition comprising the alkenyl ether according to claim 22 and a compound having a maleimido group.